

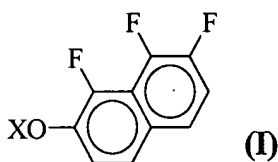
IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 6 has been cancelled as follows:

Listing of Claims:

Claim 1 (original): A compound represented by general formula (I),



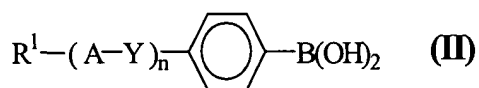
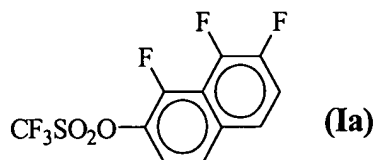
wherein X represents a hydrogen atom, CF_3SO_2 -, or a saturated or unsaturated alkyl group having a carbon number of 1 to 10.

Claim 2 (original): A compound according to claim 1, wherein X represents a hydrogen atom.

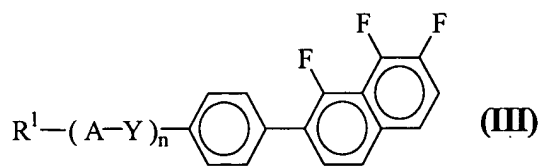
Claim 3 (original): A compound according to claim 1, wherein X represents CF_3SO_2 -.

Claim 4 (original): A compound according to claim 1, wherein X represents a saturated or unsaturated alkyl group having a carbon number of 1 to 10.

Claim 5 (original): A method for producing a compound represented by general formula (III) by reacting a compound represented by general formula (Ia) with a compound represented by general formula (II) in the presence of a catalyst,



wherein R¹ represents a saturated or unsaturated alkyl group having a carbon number of 1 to 10, and Y represents a single bond, -CH₂CH₂-, or -CH₂O-, and A represents a trans-1,4-cyclohexylene group or a 1,4-phenylene group, and n represents a number of 0 or 1,



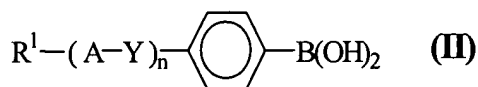
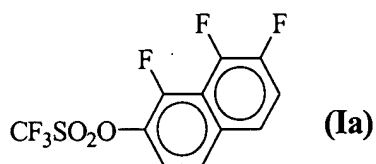
wherein R¹, Y, A, and n represent the same as in general formula (II).

Claim 6 (cancelled)

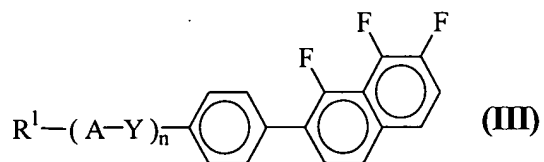
Claim 7 (original): A method for producing a compound represented by general formula (IV) comprising:

reacting a compound represented by general formula (Ia) with a compound represented by general formula (II) in the presence of a catalyst to produce a compound represented by general formula (III); and

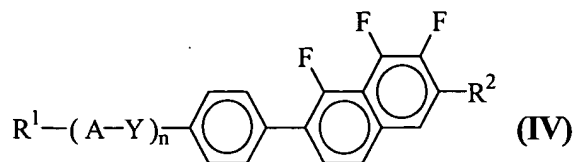
alkylating or alkoxyating the compound represented by general formula (III),



wherein R¹ represents a saturated or unsaturated alkyl group having a carbon number of 1 to 10, and Y represents a single bond, -CH₂CH₂-, or -CH₂O-, and A represents a trans-1,4-cyclohexylene group or a 1,4-phenylene group, and n represents a number of 0 or 1,



wherein R^1 , Y, A, and n represent the same as in general formula (II),



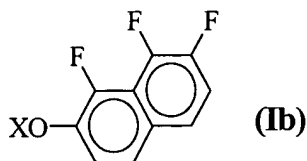
wherein R^1 , Y, A, and n represent the same as in the general formula (II), and R^2 represents a saturated or unsaturated alkyl or alkoxy group having a carbon number of 1 to 10.

Claim 8 (original): A method for producing a compound represented by general formula (VI) comprising:

lithiating 6-position of a compound represented by general formula (Ib);

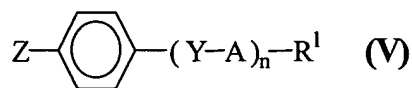
reacting the compound represented by general formula (Ib) with trimethoxyborane to produce boronic acid; and

reacting the boronic acid with a compound represented by general formula (V) in the presence of a catalyst,

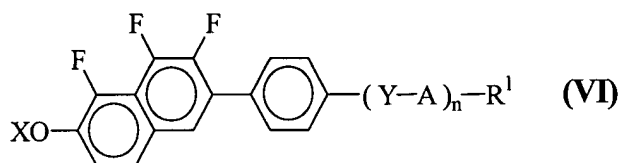


wherein X represents a saturated or unsaturated alkyl group having a carbon number of 1

to 10,



wherein Z represents an iodine atom, a bromine atom, a chlorine atom, or a trifluoromethanesulfonyloxy group, and R¹ represents a saturated or unsaturated alkyl group having a carbon number of 1 to 10, and Y represents a single bond, -CH₂CH₂-, or -CH₂O-, A represents a trans-1,4-cyclohexylene group or a 1,4-phenylene group, and n represents a number of 0 or 1,



wherein X and R¹ represent saturated or unsaturated alkyl groups having a carbon number of 1 to 10, and Y represents a single bond, -CH₂CH₂-, or -CH₂O-, and A represents a trans-1, 4-cyclohexylene group or a 1, 4-phenylene group, and n represents a number of 0 or 1.

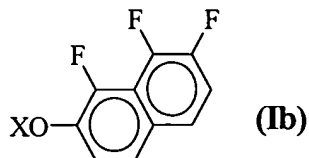
Claim 9 (original): A method for producing a compound represented by general formula (VIII) comprising:

lithiating 6-position of a compound represented by general formula (Ib);

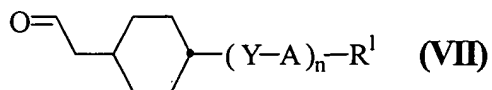
reacting the compound represented by general formula (Ib) with a cyclohexylacetaldehyde derivative represented by general formula (VII);

dehydrating a product obtained by the reaction between the compounds represented by general formulae (Ib) and (VII); and

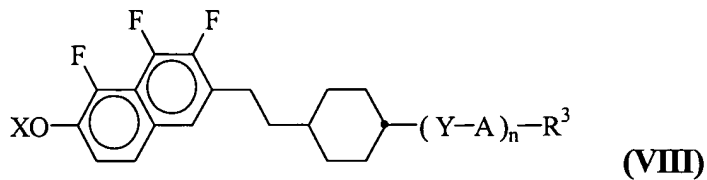
hydrogenating a double bond produced by the dehydration,



wherein X represents a saturated or unsaturated alkyl group having a carbon number of 1 to 10,



wherein R¹ represents a saturated or unsaturated alkyl group having a carbon number of 1 to 10, and Y represents a single bond, -CH₂CH₂-, or -CH₂O-, and A represents a trans-1,4-cyclohexylene group or a 1,4-phenylene group, and n represents a number of 0 or 1,



wherein X and R³ represent saturated alkyl groups having a carbon number of 1 to 10, and

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Y represents a single bond, $-\text{CH}_2\text{CH}_2-$, or $-\text{CH}_2\text{O}-$, and A represents trans-1,4-cyclohexylene group or 1,4-phenylene group, and n represents a number of 0 or 1.